JOURNAL OF CLINICAL PATHOLOGY

The Journal of The Association of Clinical Pathologists

VOLUME TWENTY-SIX
1973

EDITOR
H. E. M. KAY

ASSISTANT EDITOR
R. A. B. DRURY

Editorial Board

SIR THEO. CRAWFORD
W. M. DAVIDSON
KATHARINE M. DORMANDY
J. A. DUDGEON
M. S. DUNNILL
G. L. GIBSON
E. J. L. LOWBURY
G. K. McGOWAN
N. H. MARTIN
M. SANDLER
J. L. STAFFORD
E. JOAN STOKES
J. STUART
JOAN F. ZILVA
(representing the Association of Clinical Biochemists)
EDITOR *British Medical Journal*
GUNILLA LIDDLE (*Technical Editor*)

BRITISH MEDICAL ASSOCIATION
TAVISTOCK SQUARE · LONDON WC1H 9JR

Contents

Page

No. 1 JANUARY 1973

FL 1060: a new beta-lactam antibiotic with novel properties D. GREENWOOD AND F. O'GRADY 1
Genus-specific leptospiral antigen and its possible use in laboratory diagnosis A. PALIT AND J. GULASEKHARAM 7
Estimation of virus-neutralizing antibody in microplates P. J. PEAD AND A. HOLLEY 17
Frequency of intraendothelial 'virus-like' particles: An electron microscopy study of 376 human renal biopsies J. BARIÉTY, D. RICHER, M. D. APPAY, J. GROSSETETE, AND P. CALLARD 21
Pseudo-carcinomatous invasion in adenomatous polyps of the colon and rectum T. MUTO, H. J. R. BUSSEY, AND B. C. MORSON 25
Identification of crystals deposited in brain and kidney after xylitol administration by biochemical, histochemical, and electron diffraction methods G. W. EVANS, GAEL PHILLIPS, T. M. MUKHERJEE, M. R. SNOW, J. R. LAWRENCE, AND D. W. THOMAS 32
The separation of epinephrine from norepinephrine and dopamine from DOPA on Sephadex G-10 T. J. MCDONALD AND B. E. P. MURPHY 37
Comparison of two-point (AutoAnalyzer II) with kinetic methods for transaminase assay A. F. SMITH AND R. H. TAYLOR 42
Characteristics of the antitrypsin activity of human serum PETER T. ROWLEY AND DAGMAR OETTE 48
Routine application of the nitroblue tetrazolium test in the clinical laboratory A. M. GORDON, R. M. ROWAN, T. BROWN, AND H. G. CARSON 52
Serial nitroblue tetrazolium tests in the management of infection R. FREEMAN, B. KING, AND P. KITE 57
Lysozyme activity and nitroblue-tetrazolium reduction in leukaemic cells D. CATOVSKY AND D. A. G. GALTON 60
Thrombocytopenic purpura as the sole manifestation of a recurrence of Hodgkin's disease P. J. HAMILTON AND AUDREY A. DAWSON 70
Comparison of two laboratory tests in the control of anticoagulant therapy SARAH J. PEARCE AND A. S. C. SEKAR 73

Technical methods

A routine method for embedding animal tissues in Spurr resin for electron microscopy MARY A. WALLIS AND R. L. GRIFFIN 77
A method for preparing and staining the platelet-collagen interaction for microscopic observation R. J. THOMPSON AND R. D. MACKENZIE 78
A comparison of serum folate estimations using two different methods J. D. O'BROIN, J. M. SCOTT, AND I. J. TEMPERLEY 80
Book reviews 81

No. 2 FEBRUARY 1973

Azotaemic renal osteodystrophy: a quantitative study on iliac bone H. A. ELLIS AND KATHLEEN M. PEART 83
Identification of intrarenal fibrin deposition A. M. DAVISON, D. THOMSON, MARY K. MACDONALD, J. K. RAE, W. S. UTTLEY, AND A. R. CLARKSON 102
Electron microscope study of a case of Australia antigen-positive chronic hepatitis JUNE D. ALMEIDA, P. GIOANNINI, G. SCALISE, AND C. V. HARRISON 113
Intravascular coagulation and *E. coli* septicaemia F. E. PRESTON, R. G. MALIA, M. J. SWORN, AND E. K. BLACKBURN 120
Variable sex chromatin pattern in an early carcinoma of the bladder N. B. ATKIN AND I. PETKOVIĆ 126
The effect of pancreatectomy and other agents on iron absorption and storage in the rat R. SINNIAH, T. K. BELL, AND D. W. NEILL 130
Neonatal meningitis caused by *Citrobacter koseri* R. J. GROSS, B. ROWE, AND J. A. EASTON 138
Controlling infection in a district general hospital PAUL NOONE AND M. S. SHAFI 140
Bacteriological hazards of disposable bedpan systems G. L. GIBSON 146
Gentamicin as a selective agent for the isolation of beta haemolytic streptococci WILLIAM A. BLACK AND FRANCES VAN BUSKIRK 154

Technical methods

A replica technique for paraffin sections for transmission electron microscopy LILIAN LIM 157
Simplified procedure for the detection of antigens by crossed immunoelectrophoresis J. W. KEYSER AND K. LEWIS 160
Letters to the Editor 161
Book review 162

No. 3 MARCH 1973

Study of the pedigree of a patient with type III hyperlipoproteinaemia and sinking prebeta lipoprotein D. BALLANTYNE, JANET S. JUBB, H. G. MORGAN, AND T. D. V. LAWRIE 163
The antimycotic activity of 5-fluorocytosine R. J. HOLT AND THE LATE R. L. NEWMAN 167
Present significance of resistance to trimethoprim and sulphonamides in coliforms, *Staphylococcus aureus* and *Streptococcus faecalis* EVELYN L. LEWIS AND R. W. LACEY 175
A controlled trial of the use of dip slides in general practice for the diagnosis of urinary infection ROSALIND MASKELL 181

Contents

	Page
Selectagerm: A new approach to clinical bacteriology P. W. GREAVES	184
The relationship of the dilute whole blood lysis time to the fibrinolytic activity of blood: effect of change in plasma fibrinogen J. A. HICKMAN, I. C. GORDON-SMITH, P. F. WHITFIELD, AND S. J. GODFREY	189
Fine structural evidence for hormone secretion by the human thymus J. M. VETTERS AND R. F. MACADAM	194
The role of the mesangial cell in proliferative glomerulonephritis A. M. DAVISON, D. THOMSON, MARY K. MACDONALD, W. S. UTTLEY, AND J. S. ROBSON	198
Electron microscopic study of the distribution of the Australia antigen in individual sera of 50 serologically positive blood donors and two patients with serum hepatitis LINDA M. STANNARD, J. MOODIE, G. A. KEEN, AND A. KIPPS	209
Liver cell dysplasia: a premalignant condition P. P. ANTHONY, C. L. VOGEL, AND L. F. BARKER	217
The optical and electron microscopic determination of pulmonary asbestos fibre concentration and its relation to the human pathological reaction T. ASHCROFT AND A. G. HEPPLESTON	224
A guide to bullous lesions of the skin N. F. C. GANE	235
Technical methods	
Simple economical anaerobiosis A. P. BARTON AND J. A. WINZAR	238
A simple lyophilizer for direct line sublimation R. KEITH FARRELL AND S. D. JOHNSTON	240
Screening for neurofibrillary tangles and argyrophilic plaques with Congo Red and polarized light MOLLIE I. STOKES AND RODERICK J. TRICKEY	241
Letter to the Editor	242
Book review	242

No. 4 APRIL 1973

A trial of prophylactic replacement therapy in haemophilia and Christmas disease D. M. RAMSAY AND A. C. PARKER	243
Effects of changes in temperature (local and central) on plasma fibrinolytic activity B. DODMAN, W. J. CUNLIFFE, B. E. ROBERTS, AND C. W. BUCHAN	248
Selective media in the isolation of tubercle bacilli from tissues D. A. MITCHISON, B. W. ALLEN, AND R. A. LAMBERT	250
A comparison of methods for staining tubercle bacilli in histological sections N. GREENWOOD AND H. FOX	253
The *Treponema pallidum* haemagglutination (TPHA) test in biological false positive and leprosy sera M. F. GARNER, J. L. BACKHOUSE, G. DASKALOPOULOS, AND J. L. WALSH	258
The reproducibility and use of the tritiated folic acid urinary excretion test as a measure of folate absorption in clinical practice: Effect of methotrexate on absorption of folic acid D. S. FREEDMAN, J. P. BROWN, D. G. WEIR, AND J. M. SCOTT	261
Indirect cutaneous immunofluorescence II Clinical significance THOMAS K. BURNHAM	268
A comparison of rapid methods including imprint cytodiagnosis for the diagnosis of breast tumours C. R. TRIBE	273
Lysozymuria and acute disorders of renal function J. F. HARRISON, R. W. PARKER, AND K. L. DE SILVA	278
Triglycerides, cholesterol, and phospholipids in normal heart papillary muscle and in patients suffering from diabetes, cholelithiasis, hypertension, and coronary atheroma M. ALAVAIKKO, RIITTA ELFVING, J. HIRVONEN, AND J. JÄRVI	285
A comparative study of five laboratory tests for foeto-placental dysfunction in late pregnancy D. WATSON, S. A. SIDDIQUI, J. E. H. STAFFORD, S. GIBBARD, AND V. HEWITT	294
Reference method for the erythrocyte sedimentation rate (ESR) test on human blood INTERNATIONAL COMMITTEE FOR STANDARDIZATION IN HEMATOLOGY	301
Technical methods	
Identification of *Neisseria gonorrhoea* and *Neisseria meningitidis* by a carbohydrate disc technique PETER STACEY AND GILLIAN WARNER	303
The oxidase activity of *Chromobacterium* S. K. DHAR AND R. JOHNSON	304
A screening test for IgG deficiency ANNE FERGUSON	306
A simple, inexpensive gel filtration technique for use in diagnostic serology J. R. PATTISON AND JENNIFER E. MACE	309
Wet ashing using a closed system GEORGE P. LEWIS AND LINDA L. COUGHLIN	311
Letters to the Editor	312
Book reviews	314

No. 5 MAY 1973

A proposal for a standardized system of reporting human lymph node morphology in relation to immunological function H. COTTIER, J. TURK, AND L. SOBIN	317
Infectious mononucleosis complicated by acute haemolytic anaemia with a positive Donath-Landsteiner reaction M. M. WISHART AND M. G. DAVEY	332
Australia antigen and primary biliary cirrhosis R. N. M. MACSWEEN, A. A. C. YEUNG LAIWAH, A. A. BUSUTTIL, MAIR A. THOMAS, SHEILA K. ROSS, G. WATKINSON, I. MILLMAN, AND B. S. BLUMBERG	335
Mallory's ('alcoholic') hyaline in primary biliary cirrhosis RODERICK N. M. MACSWEEN	340

Contents

	Page
An automated passive haemagglutination technique suitable for the detection of hepatitis B virus antigen and antibody in blood donors MARGARET NELSON, ELIZABETH J. PHIPPS, PAMELA G. WATSON, JACQUELINE R. WATTS, AND ROMAN ZWOLENSKI	343
The fibrinolytic enzyme system in hypertension B. BENNETT, D. OGSTON, G. P. M. CRAWFORD, AND A. S. DOUGLAS	351
Effect of intravenous prostaglandin E_2 on platelet function, coagulation, and fibrinolysis P. W. HOWIE, A. A. CALDER, C. D. FORBES, AND C. R. M. PRENTICE	354
Renovascular hypertension in three children from one family P. M. BLOM VAN ASSENDELFT, C. J. KOOIKER, E. J. DORHOUT MEES, AND A. J. HAMELEERS	359
Venous infarction of the myocardium in a newborn child: An unusual effect of disseminated intravascular coagulation M. MCCORMACK	364
Association of white cell and red cell antibodies in human sera JILL M. ROSS AND D. C. O. JAMES	367
Food antibodies in oral disease: A study of serum antibodies to food proteins in aphthous ulceration and other oral diseases H. C. THOMAS, ANNE FERGUSON, J. G. MCLENNAN, AND D. K. MASON	371
Clinical trial of a chemical test for bacteriuria LINDSAY PATERSON AND A. W. F. MILLER	375
The production and testing of staphylococci with clumping factor activity for use in the assay of fibrinogen degradation products G. RICHARDSON	377
Technical methods	
A device for stoppering bottles and ampoules under vacuum or dry nitrogen conditions R. KEITH FARRELL AND S. D. JOHNSTON	381
A combined moist chamber and tray E. EVEREST	382
Letters to the Editor	383
Book reviews	385
The Association of Clinical Pathologists: 90th general meeting	386

No. 6 JUNE 1973

Bactericidal activity of metronidazole against *Bacteroides fragilis* J. P. F. WHELAN AND J. H. HALE	393
Septicaemia due to *Pasteurella pneumotropica* BOGUMILA T. ROGERS, J. C. ANDERSON, CYNTHIA A. PALMER, AND W. G. HENDERSON	396
Isolation of *Neisseria lactamica* from the nasopharynx ANGELA H. PYKETT	399
Bacterial contamination of platelet concentrates stored at 20°C MARGARET CUNNINGHAM AND JOHN D. CASH	401
Speciation and amphotericin B sensitivity studies on blood isolates of *Candida* from burned patients DONALD D. STIERITZ, EDWARD J. LAW, AND IAN ALAN HOLDER	405
Anti-gamma haemolysin as a diagnostic test in staphylococcal osteomyelitis A. G. TAYLOR AND M. PLOMMET	409
Mucinous cystadenoma and cystadenocarcinoma of the vermiform appendix with particular reference to mucocele and pseudomyxoma peritonei N. M. GIBBS	413
Tuberculoid lymphadenitis due to *Mycobacterium chelonei* C. A. MORRIS, G. H. GRANT, P. H. EVERALL, AND A. T. M. MYRES	422
Staining procedures for the endocrine cells of the upper gastrointestinal mucosa: Light-electron microscopic correlation for the gastrin-producing cell SERGIO A. BENCOSME AND JUAN LECHAGO	427
A comparative survey of the results of analyses of blood serum in clinical chemistry laboratories in the United Kingdom T. P. WHITEHEAD, D. M. BROWNING, AND A. GREGORY	435
Measurement of methaemalbumin in plasma K. MURRAY, M. KNIGHT, AND J. A. OWEN	446
Technical methods	
A technique for bacteriological sampling of hair CHRISTINA M. BANNERMAN, W. A. BLACK, AND D. A. BLACK	448
Comparison of techniques for distinguishing staphylococci and micrococci LUCY BOSSCHER-ZONDERMAN AND INGRID SMITH	450
Chandler's thrombi as agents for the assessment of antithrombotic drugs *in vitro* DAVID H. LAWSON, MARGARET M. HUTTON, AND GEORGE P. MCNICOL	452
An automated method for the quantitative assessment of low concentrations of glucose in urine A. M. EMMERSON, P. GARCIA-WEBB, AND SUSAN J. TURNER	454
An apparatus for the thawing of stored blood in liquid nitrogen R. MITCHELL, W. MUIR, AND A. E. MCLAREN	455
Letters to the Editor	457
Book reviews	459

No. 7 JULY 1973

Benign sinus histiocytosis with massive lymphadenopathy: transient immunological defects in a child with mediastinal involvement D. M. O. BECROFT, M. R. DIX, J. C. GILLMAN, BETH J. L. MACGREGOR, AND R. L. SHAW	463
Carcinoembryonic antigen in serum in diseases of the liver and pancreas S. K. KHOO AND I. R. MACKAY	470
The response to phytohaemagglutinin (PHA) of lymphocytes from cancer patients S. KUMAR AND G. TAYLOR	476
Routine operation of an Elliott 903 computer in a clinical chemistry laboratory L. G. WHITBY AND D. SIMPSON	480

Contents

	Page
Serum folic acid activity (*L. casei*) in Sephadex gel chromatography T. MARKKANEN, R.-L. PAJULA, P. HIMANEN, AND S. VIRTANEN	486
An automated microbiological method for the measurement of vitamin B_{12} R. E. DAVIS, J. MOULTON, AND A. KELLY	494
Experience with a commercial preparation of ^{125}I-labelled human albumin for study of albumin metabolism FIONA C. BALLANTYNE AND A. FLECK	499
Early detection of influenza virus in cell culture by means of immunofluorescence A. F. M. S. RAHMAN	503
A rapid assay method for cephalosporins PAUL NOONE	506
A serological method for distinguishing coagulase-negative staphylococci from micrococci L. S. NAKHLA	511
Coagulase-negative staphylococci causing endocarditis after cardiac surgery D. C. E. SPELLER AND R. G. MITCHELL	517
The relationship between the biotype of Klebsiella species and their pathogenicity R. J. FALLON	523
The effect of temperature of the culture medium on the outcome of blood culture D. G. MODEL AND R. N. PEEL	529
Antithrombin-III deficiency in a Dutch family J. VAN DER MEER, E. A. STOEPMAN-VAN DALEN, AND J. M. S. JANSEN	532
The postnatal development of lymphoreticular aggregates and lymph nodes in infants' lungs JOHN L. EMERY AND FAY DINSDALE	539
Technical methods	
Methylene blue and azure-2 as stains for lipid in osmium-fixed tissues embedded in araldite E. W. PARRY	546
A modified fluorimetric procedure for the rapid estimation of oxytetracycline in blood V. V. MURTHY AND S. L. GOSWAMI	548
The development of aluminium containers for the storage of blood in liquid nitrogen for the immunization of Rh- volunteers DUNCAN S. PEPPER, HELEN D. BLUME, AND I. PALIN	550
Letters to the Editor	552
Book reviews	553

No. 8 AUGUST 1973

Current trends and problems in health screening J. M. G. WILSON	555
Effects of observer variation in population screening for cervical carcinoma A. LAMBOURNE AND H. LEDERER	564
Odontogenic myxoma: Ultrastructural and histochemical studies J. D. HARRISON	570
The incidence of germinal centres in thymus glands of patients with congenital heart disease J. M. VETTERS AND R. S. BARCLAY	583
A case of chronic granulocytopenia associated with vasculitis and amyloidosis G. H. JENNINGS, A. J. LEVI, AND J. REEVE	592
An enzyme preparation inactivating all penicillins and cephalosporins PAMELA M. WATERWORTH	596
The relative susceptibility of four cephalosporins to a beta-lactamase from *Bacillus cereus* A. D. RUSSELL AND J. R. FURR	599
Empyema of the gallbladder due to *Haemophilus parahaemolyticus* with a brief review of its role as a pathogen MICHAEL PARSONS AND IRWIN FARIS	604
An outbreak of diphtheria in hospital for the mentally subnormal G. S. ANDERSON AND J. B. PENFOLD	606
Experimental hypercalcaemia and whole blood clotting P. HILGARD	616
Fat embolism in sickle cell disease R. M. HUTCHINSON, M. V. MERRICK, AND J. M. WHITE	620
Evaluation of a tanned red cell technique for thyroid microsomal antibodies T. BIRD AND J. STEPHENSON	623
Simplification of urinary aldosterone measurement by radioimmunoassay C. L. COPE AND S. LOIZOU	628
Technical methods	
A simple method for the isolation of blood platelets P. GANGULY AND W. J. SONNICHSEN	635
Letter to the Editor	637
Book reviews	637

No. 9 SEPTEMBER 1973

Pathology of 'pseudotumours' of the orbit: A review A. GARNER	639
Multiple myeloma: Development of plasma cell sarcoma during apparently successful chemotherapy J. M. HOLT AND A. H. T. ROBB-SMITH	649
Mesangial cells in membranous glomerulonephritis P. A. PORTCH AND G. WILLIAMS	660
Recurrent haematuria and mesangial IgA deposition D. R. DAVIES, J. R. TIGHE, N. F. JONES, AND G. W. BROWN	672
Enzymes involved in phenylalanine metabolism in the human foetus and child ANNE MCLEAN, MARGARET J. MARWICK, AND BARBARA E. CLAYTON	678
Serum D-glutamyl transferase following myocardial infarction MARGARET D. CONNELL	684
Dose response relationships and interference of simultaneous skin tests in delayed hypersensitivity A. M. M. JOKIPII AND LIISA JOKIPII	687
The measurement of serum transferrin by iron-binding capacity W. N. M. RAMSAY	691
Hyperaggregation effect in idiopathic thrombocytopenia and multiple transfused patients NORMAN WAGNER AND THOMAS J. DEGNAN	697

Contents

	Page
The interrelationships and stability of Coulter S-determined blood indices P. J. HAMILTON AND R. L. DAVIDSON	700
The isolation of enteroviruses from cases of acute conjunctivitis P. G. HIGGINS AND R. J. D. SCOTT	706
Genetic determinants of trimethoprim resistance in a strain of *Staphylococcus aureus* L. S. NAKHLA	712
Testing a steam-formaldehyde sterilizer for gas penetration efficiency STUART J. LINE AND J. K. PICKERILL	716
Technical methods	
The selection of a method for the culture of cells from amniotic fluid R. G. CHITHAM, SARAH J. QUAYLE, AND LUCILLE HILL	721
Screening of vasectomy specimens P. J. WESTWOOD AND A. C. HUNT	723
Direct microscopy of uncentrifuged urine P. E. MANSELL AND A. M. PEACOCK	724
Simple slide-rule conversion between hydrogen ion concentration and pH values D. N. BARON	726
Letter to the Editor	726
Book reviews	727

No. 10 OCTOBER 1973

SI units in pathology: the next stage D. N. BARON	729
An outbreak of infantile gastroenteritis due to *E. coli* 0142 D. H. KENNEDY, G. H. WALKER, R. J. FALLON, J. F. BOYD, R. J. GROSS, AND B. ROWE	731
Incidence and isolation of Bacteroides species from clinical material and their sensitivity to antibiotics A. A. B. MITCHELL	738
Intravenous infusions of heparin and penicillins J. JACOBS, DINA KLETTER, E. SUPERSTINE, K. R. HILL, B. LYNN, AND R. A. WEBB	742
Flavobacterium meningosepticum from cases of meningitis in Botswana and England S. P. LAPAGE AND R. J. OWEN	747
Clinical, light, and electron microscopy findings in idiopathic haematuria F. ALEXANDER, R. LANNIGAN, AND R. BULL	750
Detection of fibrinogen antigens with two latex techniques applied to urine concentrates MARIA BENEDETTA DONATI, N. SEMERARO, AND J. VERMYLEN	760
A batch method for estimating thrombin clottable fibrinogen G. W. FARRELL AND P. WOLF	764
Serum ferritin concentration and iron stores in normal subjects G. O. WALTERS, E. M. MILLER, AND M. WORWOOD	770
Blood zinc in the spinal patient R. G. BURR	773
Relationship between hepatic morphology and clinical and biochemical findings in morbidly obese patients J. L. MANES, H. B. TAYLOR, AND G. B. STARKLOFF	776
Prognostic typing in breast cancer B. O. MAEHLE AND F. HARTVEIT	784
'Sclerosing haemangioma' of the lung: an alternative view of its development A. KENNEDY	792
Technical methods	
A simple and rapid one-tube method for the determination of urinary delta-aminolaevulinic-acid N. SATGUNASINGAM, J. E. BUTTERY, AND G. F. DE WITT	800
A simple method for the estimation of plasma ammonia using an ion specific electrode N. J. PARK AND J. C. B. FENTON	802
Capillary-action replicator D. W. R. MACKENZIE	805
Letters to the Editor	807
Book reviews	808

No. 11 NOVEMBER 1973

Benefit and mischief from commensal bacteria R. E. O. WILLIAMS	811
An assessment of the usefulness of dip slides in a children's hospital T. L. SHRESTHA AND N. E. G. RICHARDSON	819
The ortho-nitrophenol (ONPG) test and acid from lactose in Gram-negative genera S. P. LAPAGE, ANDROULLA EFSTRATIOU, AND L. R. HILL	821
Non-flagellate *Pseudomonas aeruginosa* in pathological material F. W. LEE	826
A guide to the histological identification of fungi in tissues P. P. ANTHONY	828
Epidemiological and quantitative relationships between mesothelioma and asbestos on Tyneside T. ASHCROFT	832
Types of 'reticulin' antibodies detected in human sera by immunofluorecence MARIO RIZZETTO AND DEBORAH DONIACH	841
Quantitative immunoelectrophoretic analysis of the plasma proteins in the sol phase of sputum from patients with chronic bronchitis H. C. RYLEY AND T. D. BROGAN	852
Stability of freeze-dried plasma prepared from patients on oral anticoagulants MILICA BROZOVIĆ, D. J. HOWARTH, L. P. VAN HALEM VISSER, AND E. A. LOELIGER	857
A report on the interlaboratory quantitation of haemoglobin A_2 and haemoglobin F J. M. WHITE AND S. M. LEWIS	864
Acute haemolytic anaemia associated with polyagglutinability of red cells T. BIRD AND J. STEPHENSON	868
An automated method for the microbiological assay of serum pyridoxal R. E. DAVIS, B. K. SMITH, AND D. H. CURNOW	871

Contents

	Page
The Leeds regional quality control scheme for clinical biochemistry: A progress report A. T. HOWARTH, R. L. NOBLE, R. B. PAYNE, A. E. STEEL, AND P. R. TEASDALE	875
Haematology—trends and opportunities E. K. BLACKBURN	881
Men and machines N. H. MARTIN	886
Technical methods	
A serial whole-organ slicing technique for examining surgically resected breasts J. DOUGLAS DAVIES, G. ROBERTS, AND P. J. RICHARDSON	891
Bedside control of heparin therapy by a simple whole blood clotting method C. COTTON KENNEDY AND M. J. ROCKS	893
Letters to the Editor	894
Book reviews/Notices	895

No. 12 DECEMBER 1973

Genetic basis, epidemiology, and future significance of antibiotic resistance in *Staphylococcus aureus:* A review R. W. LACEY	899
Rapid adenovirus typing by immunoelectron microscopy P. LUTON	914
Urinary infection caused by *Micrococcus* subgroup 3 HELEN KERR	918
Preoperative sterilization of the perineum: A comparison of six antiseptics MARGARET E. BYATT AND A. HENDERSON	921
A disposable bed pan system using an improved disposal unit and self-supporting bed pans G. L. GIBSON	925
Metastasizing ependymoma of the cauda equina D. G. D. WIGHT, K. J. HOLLEY, AND J. A. H. FINBOW	929
Hepatic cirrhosis: A clinico-pathological review of 520 cases R. N. M. MACSWEEN AND A. R. SCOTT	936
Inflammatory pseudo-tumours of the abdomen: plasma cell granulomas JANE P. WU, EDUARDO J. YUNIS, GEORGE FETTERMAN, WALTER H. JAESCHKE, AND ENID F. GILBERT	943
Fine structure and morphogenesis of spironolactone bodies in the zona glomerulosa of the human adrenal cortex K. KOVACS, E. HORVATH, AND W. SINGER	949
Human platelet reactivity during stressful diagnostic procedures J. L. GORDON, D. E. BOWYER, D. W. EVANS, AND M. J. MITCHINSON	958
Superiority of simplified assay for folate with *Lactobacillus casei* ATCC 7469 over assay with chloramphenicol-adapted strain BERNARD A. COOPER	963
The significance of the fluorescent treponemal antibody (FTA-ABS) test in collagen disorders and leprosy D. J. M. WRIGHT	968
A new mathematical model for fitting an HPL radioimmunoassay curve B. R. HARDING, RITCHIE THOMSON, AND A. R. CURTIS	973
Technical method	
A method for bacteriological sampling of surfaces by direct application of culture media D. MACCULLOCH AHD B. M. CORNERE	977
Letter to the Editor	978
Book reviews	979
The Association of Clinical Pathologists: 91st general meeting	982
Index to Volume 26	989